INF5520 Sound Bar

User's Guide

MIC Number: HW-SOUNDBAR-2
Regulatory model: VSB200
p/n: 009-1430-01

InFocus
Bright Ideas Made Brilliant

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Safety Information

The HD sound bar is designed and manufactured to operate within defined design limits, and misuse may result in electric shock or fire. To prevent the HD sound bar from being damaged, the following rules should be observed for its installation, use, and maintenance. Please Read the following safety instructions before operating the HD sound bar. Keep these instructions in a safe place for future reference.

- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to the HD sound bar.
- Unplug the power cord before cleaning the HD sound bar. A damp cloth is sufficient for cleaning.
- Do not use a liquid or a spray cleaner on the HD sound bar. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving the HD sound bar from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on the HD sound bar to avoid causing fire, electric shock, or component damage.
- A distance of at least 3 feet should be maintained between the HD sound bar and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install the HD sound bar close to smoke. Operating the HD sound bar close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the HD sound bar and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the HD sound bar in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slots and openings on the HD sound bar enclosure. Do not place any objects on the top of the HD sound bar. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on the HD sound bar.
- The HD sound bar should be operated only from the type of power source indicated on the label on the AC/DC Adapters. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Only power of the marked voltage can be used for your HD sound bar. Any other voltage than the specified voltage may cause fire or electric shock.
- The power cord must be replaced when using different voltage than the voltage specified. For more information, contact your dealer.
- The HD sound bar AC/DC Adapters are equipped with a three-pronged grounded plug (a plug with a third grounding pin). This plug will fit only into a grounded power outlet. This is a safety feature. If your outlet does not accommodate the three-pronged, have an electrician install the correct outlet, or use an adapter to ground the HD sound bar safely.
- Do not defeat the safety purpose of the grounded plug.
- When connected to a power outlet, power is always flowing into the HD sound bar. To totally disconnect power, unplug the power cord.
- The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-isolated, dangerous voltage within the inside of the HD sound bar that may be of sufficient magnitude to constitute a risk of electric shock to persons.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying your HD sound bar.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket should be located near the HD sound bar and be easily accessible.
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power
- cord during electrical storms.Unplug the HD sound bar during a lightning storm or when it will not be used for long periods of
- time. This will protect the HD sound bar from damage due to power surges.
- Do not attempt to repair or service HD sound bar yourself. Opening or removing the front cover may expose you to high voltages, electric shock, and other hazards. If repair is required, contact your dealer and refer all servicing to qualified service personnel.
- Keep the HD sound bar away from moisture. Do not expose the HD sound bar to rain or moisture. If water penetrates into the HD

sound bar, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.

- Do not use the HD sound bar if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair the HD sound bar yourself.
- Avoid using dropped or damaged appliances. If the HD sound bar is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of the HD sound bar may cause fire or electric shock.
- Do not install the HD sound bar in an area with heavy dust or high humidity. Operating the HD sound bar in environments with heavy dust or high humidity may cause fire or electric shock.
- Ensure that the power cord and any other cables are unplugged before moving the HD sound bar.
- When unplugging the HD sound bar, hold the power plug, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When the HD sound bar will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert the battery in accordance with instructions. Incorrect polarity may cause the battery to leak which can damage the remote control or injure the operator.
- If any of the following occurs, contact the dealer:
    - The power cord fails or frays.
    - Liquid sprays or any object drops into your HD sound bar.
    - HD sound bar is exposed to rain or other moisture.
    - HD sound bar is dropped or damaged in any way.
    - The performance of the HD sound bar changes substantially.

What's Included

Mounting Bracket Set #1

Mounting Bracket Set #2

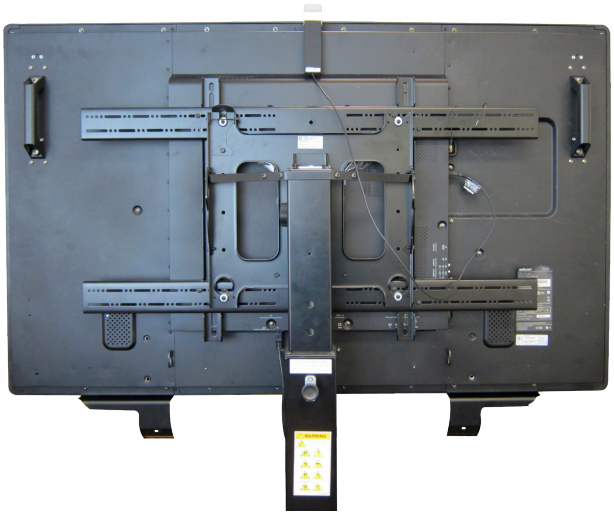
Sound bar with installed feet
Remote Control (battery included)
Mounting Bracket Set #1 (2)
Mounting Bracket Set #2 (2)
Mounting Screws (2)
Velcro® tape
RCA Stereo Cable
Power Adapter
Power Cords (2)
User's Guide (this document)

Mounting the Sound Bar

IMPORTANT:
The INF5520 must be mounted to a stand or placed on feet before following these instructions. Review the INF5520 user documentation for more information.

To mount the sound bar to the INF5520 monitor, follow these instructions:

1) Remove the four (4) screws along the bottom edge of the backside of the monitor.

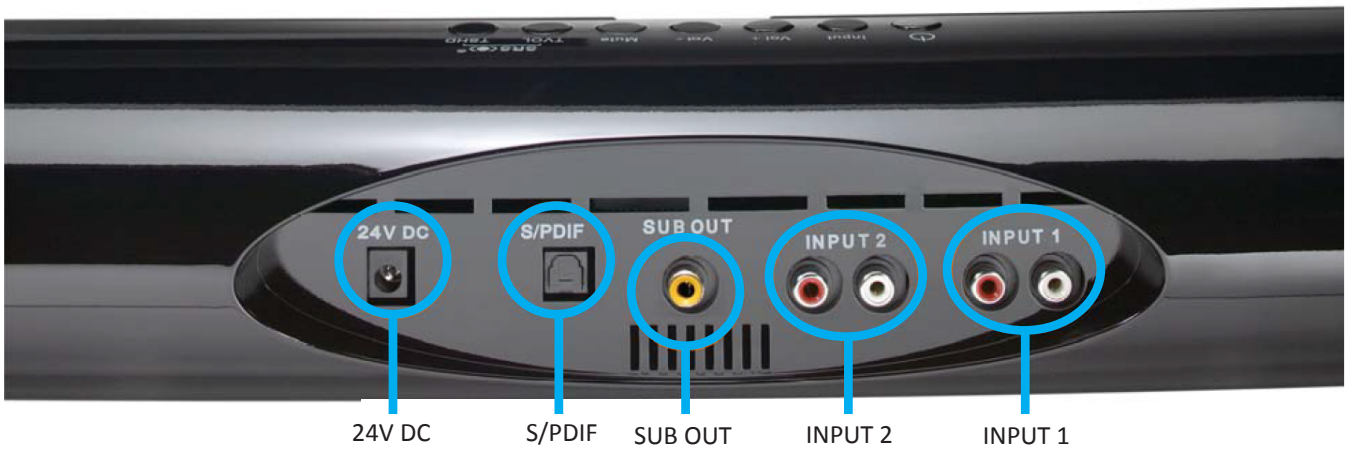


Shown with Mounting Bracket Set #2

2) Align the rectangular brackets with the screw holes on the monitor. **NOTE:** If the monitor is mounted to feet, use Mounting Bracket set #1. If the monitor is being mounted to a wall or to a stand and you want to mount the sound bar flush with the monitor, use Mounting Brackets #2.
3) Using the screws from Step 1, attach the brackets, but do not tighten the screws completely.
4) Remove the existing feet from the sound bar and set the feet aside.
5) Attach the sound bar to the mounting brackets with the provided screws.
6) Tighten all the screws securely.

7) Remove the adhesive strip from one side of the Velcro® tape and attach it to the power supply.
8) Without separating the Velcro or removing the other adhesive strip, determine where you want the power supply to attach to the back of the monitor. **NOTE:** The power supply should be attached close to the monitor's AC Out jack.
9) Remove the remaining adhesive strip from the back of the Velcro and attach the power supply to the back of the monitor.

Connecting the Sound Bar to your Source Device



Connector	Description
24V DC	Used for connecting the power adapter.
S/PDIF	An SPDIF Optical connector used with an alternate source device such as a home theater system, amplifier, receiver, set top box or DVD Player.
SUB OUT	Used with an amplified subwoofer input.
INPUT 1/2	Analog audio connectors (L/R) used with the INF5520, INF7020 or an alternate source device such as a TV, home theater system, amplifier, receiver, set top box or DVD Player.

1) Connect one end of the analog (RCA L/R) audio cable to INPUT 1 or INPUT 2 on the back of the sound bar, and the other end to the audio output of the INF5520 or alternate source device (See the INF5520 user documentation for more details).
2) *Optional for use with a sub-woofer:* Connect one end of the sub-woofer audio cable to SUB OUT on the back of the sound bar, and the other end to the analog sub-woofer output of a stereo/home theater system.
1) *Optional for use with a different source device:* Connect an optical (SPDIF) cable from the optical output on the source device to S/PDIF. Note: Set the source device output mode to PCM. Refer to the source device user documentation for more information.
2) Connect the power adapter to the 24V DC jack on the back of the sound bar.
3) Connect the short AC power cord to the power adapter.
4) Connect the other end of the AC power cord to the AC Out jack on the monitor's connector panel.

5) Turn the power switch ON using the sound bar control panel or remote.
6) Press the Input button on the sound bar or the remote to toggle between the sources (Input 2 is the default).

Control Panel Overview

Buttons	Description
Power	Turns the sound bar on and off.
Input	Toggles between the different sources, Input 1, Input 2 and Optical In.
Vol-	Decreases the volume.
Vol+	Increases the volume.
Mute	Turns the sound on and off.
TVOL	Toggles the SRS TruVolume feature on and off. (When this feature is on and the sound bar is being used to transmit TV programming, this feature prevents the commercials from becoming louder than the television program being viewed.) Press twice to activate.
TSHD	Toggles the SRS TruSurround HD feature on and off. Press twice to activate.

LED Panel Overview

The LED panel on the sound bar turns on when adjustments are being made. Within a couple of seconds after adjustments have been completed, the LEDs turn off.

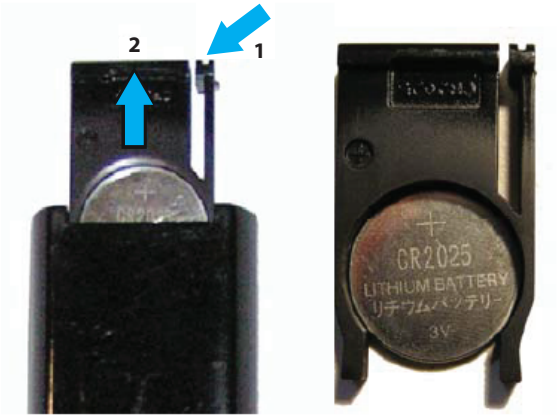
LEDs	Color	Indicates
1	White	The soundbar has been turned on.
2	White*	Blinks White when Input 1 is the chosen source input. Displays solid white when volume is being adjusted.
3	White*	Displays solid white when volume is being adjusted.
4	White*	Blinks White when Input 2 is the chosen source input. Displays solid white when volume is being adjusted.
5	White*	Displays solid white when volume is being adjusted.
6	White*	Blinks White when Input 3 is the chosen source input. Displays solid white when volume is being adjusted.
7	White*	Displays solid white when volume is being adjusted.
8	--------	not used
9	Blue	SRSTruVolume has been turned on.
10	Blue	SRSTruSurround has been turned on.

*Each LED volume indicator has three brightness levels for a total of 18 volume settings. As the volume is increased, the brightness of the LED volume indicators also increases.

Remote Overview

Buttons	Description
Power	Turns the sound bar on and off.
Input	Toggles between the different sources, Input 1, Input 2 and Optical In.
Vol+	Increases the volume.
Vol-	Decreases the volume.
Mute	Turns the sound on and off.
TVOL	Toggles the SRS TruVolume feature on and off. (When this feature is on and the sound bar is being used to transmit TV programming, this feature prevents the commercials from becoming louder than the television program being viewed.
TSHD	Toggles the SRS TruSurround HD feature on and off.

Inserting the Remote Battery



1) Turn the remote control over. Press inward to release the lock.
2) Slide the battery holder out of the remote using your fingernail. Remove the protective plastic sheet by pulling straight out from the remote.
3) Insert the CR2025 Lithium button battery into the battery holder with the (+) symbol aligned with the (+) symbol on the battery holder.
4) Re-insert the battery holder into the remote.

Caution:

- When replacing the remote battery, be aware that using any battery than a CR2025 Lithium battery may risk severe damage to the remote. When disposing of old batteries, be sure to do so in an enviromentally proper manner.
- If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- Ensure the battery polarity (+/-) is aligned correctly.
- Replace the battery as soon as it runs out.
- When not using the remote control for a long period of time, remove the battery.
- Keep batteries away from children and pets.

Operating the Remote

To operate the remote, point the remote at the remote control sensor in the lower right side of the sound bar. The range of optimum operation is about 30 feet (10m), 30° to the left and right, 20° up and down.

Maintenance

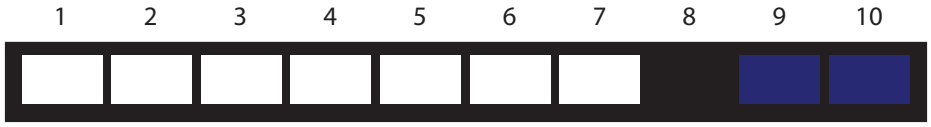
1) Unplug the sound bar from power.
2) Moisten a soft, dry cloth with water.
3) Lightly wipe the cleaning cloth over the sound bar.
4) Wipe dry with a soft, dry cloth.

WARNING: Do not allow liquids to enter the sound bar. Spilled liquid may damage your sound bar.
WARNING: Do not attempt to service this product yourself as opening and removing covers may expose you to dangerous voltage and other hazards. Refer all servicing to qualified service personnel.

Troubleshooting

Symptom	Troubleshooting Tips
No power	Make sure the power cord is securely connected to the power outlet and to the sound bar power adapter. Make sure the power adapter is securely connected to the sound bar. Press the Power button on the sound bar control panel or the remote control.
No sound	Press the Volume + button on sound bar control panel or the remote control. Verify that the source is correctly selected. Verify that the source device is powered on and emitting audio to the external port. Verify that the Mondopad software is not muted. Verify that the audio cables are securely connected between the source device and the sound bar.
Audio distortion	The sound bar is designed for standard line-in level input signals which are a MAXIMUM 2 Volt RMS. The sound bar is not intended to be connected to the output of an amplified audio source such as a Home Theater speaker output or MP3 Player headphone jack. Doing so may damage the sound bar.
Buzzing or humming	Verify that the audio cables are securely connected between the source device and the sound bar. Try a known good audio cable. Attach a different speaker to the source device to locate source of the problem.
Settings are lost when the sound bar is unplugged	Leave the sound bar connected to AC. Otherwise, the sound bar will return to factory default settings.
No sound when connected to Optical In	Change the source device output to PCM. Refer to the source device user documentation for more information.
The sound bar is not responding to the remote	Replace the remote battery.

LED Error Codes



When an error occurs, the volume strip (LEDs #1 - 7) turns solid except for the LED which indicates which error condition is occurring (that LED will be flashing). LEDs #8-10 are not used for error conditions.

LED 1	LED 2	LED 3	LED 4	LEDs 5-7	Error Type	Troubleshooting Tip
Blinking	Solid	Solid	Solid	Solid	An SPDIF compressed format detected	Configure the DVD player (or audio source device) audio output format setting to PCM or PCM stream. Otherwise, use the Analog RCA inputs from the audio source to the sound bar without configuration of the audio source device.
Solid	Blinking	Solid	Solid	Solid	The SPDIF rate is unsupported	Configure the audio sample rate of the audio source device to be either 44.1 KHz or preferably 48KHz.
Solid	Solid	Blinking	Solid	Solid	An over-current error has been detected	Reduce the volume setting of the sound bar and subwoofer temporarily, and turn the unit off for a short period and back on to reset the circuitry. If this indication continues to occur, then reduce the volume level for the particular source content being played.
Solid	Solid	Solid	Blinking	Solid	Thermal Shutdown has occurred.	Turn off the sound bar and verify the ventilation slots in the sound bar are clear, the sound bar has proper ventilation and is not being operated in an environment that is too hot. If these conditions exist, reduce the volume level for the particular source content being played.

For additional troubleshooting support, please contact:

InFocus Corporation
Technical Support
6am-5pm PST
877-388-8385
www.infocus.com/support

Specifications

Model Number	HW-SOUNDBAR-2	
Speakers	4 x 3" High Efficiency mid/bass transducers / 2 x 3/4" High Performance Aluminum Dome Tweeters	
Frequency Response	80Hz to 20 kHz	
Amplifier	Integrated Class D @ 15x2 channel w/ .01% THD	
Frequency Response	35Hz up to 80Hz	
Inputs	SPDIF	1 rear of HD sound bar
	Stereo Audio	2 rear of HD sound bar
	DC (24V)	1 rear of HD sound bar
Output	Analog Sub-Woofer	1 rear of HD sound bar
Features	Four 3" High-Efficiency hand built mid/bass transducers Two 3/4" High Performance aluminum dome neodymium tweeters Speaker bar frequency response: 80Hz to 20kHz, Integrated Class-D Amplifier at 15x2 channel with .01% THD Discrete 192kHz, 24-bit S/PDIF receiver enables up to 144dB dynamic range digital audio delivery SNR 105db, Support for up to 192kHz, 24-bit Linear PCM via TOSLINK input High Power Efficiency with Low Power Consumption Environmentally conscious, High-Performance 32-Bit 150MHz DSP Audio Engine, Impressive Sound Pressure Level measuring 90dB SPL (1W @ 1M) Advanced 24-Bit Linear PCM to PWM Engine with integrated thermal, overcurrent, over voltage, over current protection uncompressed audio transmission Sync response within 3 seconds Latency equal to the speed of sound (1 ms/ft.) Guaranteed equal and consistent latency High-efficiency Class D amplifier 2 Stereo RCA Input with Input Sensitivity: 2Vrms (max) 1 S/PDIF Fiber Optic TOSLINK Input Supported Sampling Frequencies: 44.1kHz & 48kHz / Support Linear PCM Bit Depths: 16-bit, 20-bit, 24-bit. SRS TruSurround / SRS TruVolume	
Sound Pressure Level	90dB @ 1m	
Power Input	Power Adapter, AC-DC inverter type, Output: 24VDC, 2.7A 65W Max.	
Voltage	110V at 60Hz	
Dimensions	39.95” W x 4.82” H x 4.33” D (1015mm x 122mm x 110mm)	
Net Weight	11.7lbs (5.3Kg) with feet, 9.3lbs (4.2Kg) without feet	
Gross Weight	13.3lbs (6.5kg)	
Certifications	SRS TruSurround HD/ SRS TruVolume	
Compliances	UL, FCC (VSB200)	

Warranty

LIMITED WARRANTY

Subject to the Limitations, Exclusions and Disclaimers hereof, InFocus Corporation ("InFocus") warrants that the soundbar (hereinafter collectively or individually referred to as "Product" as appropriate) will conform to InFocus' specifications and be free from defects in material or workmanship for the respective Limited Warranty period provided below. If the Product, while subject to this Limited Warranty, is defective in material or workmanship during the warranty period, then InFocus, at its option, will REPAIR or REPLACE the Product. InFocus' sole obligation is to supply (or pay for) all labor necessary to repair the Product found to be defective within the Limited Warranty period and to repair or replace defective parts with new parts or, at the option of InFocus, serviceable used parts that are equivalent or superior to new parts performance, but shall not exceed the return of the amount of the purchase price paid by the purchaser.

Limited Warranty Periods are as follows:

Soundbar Product Limited Warranty Period: One (1) year from date of proof of purchase.

Accessory Product Limited Warranty Period: Ninety (90) days from date of purchase.

WARRANTY LIMITATION AND EXCLUSION

THIS WARRANTY SETS FORTH INFOCUS' MAXIMUM LIABILITY FOR ITS PRODUCT. THIS WARRANTY EXTENDS ONLY TO PRODUCTS PURCHASED FROM INFOCUS OR AN INFOCUS AUTHORIZED RESELLER.

InFocus shall have no further obligation under the foregoing Limited Warranty if the Product has been damaged due to abuse, misuse, exposure to smoke, accident, service other than by InFocus or its authorized agents, or failure caused other than from ordinary use or failure to properly use the Product in the application for which said Product was intended. In addition, failure of the end-user to follow maintenance procedures as outlined in the Product's user guide will not be covered under this Warranty. Finally, InFocus shall have no further obligation if InFocus Product was subjected to operating conditions outside of the range specified in the user's guide or in this warranty. This warranty does not cover maintenance/repair/replacement of parts due to normal wear and tear. Remanufactured Products are exempt from the foregoing Limited Warranty. Please refer to the appropriate Remanufactured Product Limited Warranty for applicable Warranty information.

DISCLAIMER OF UNSTATED WARRANTIES

THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF AND THE FOREGOING WARRANTY SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY WRITTEN INSTRUMENT SIGNED BY INFOCUS. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, SO SUCH LIMITATIONS MAY NOT APPLY TO YOU.

LIMITED WARRANTY PERIOD

The Limited Warranty periods hereof commence on the date of proof of purchase by the end-user customer. SOME JURISDICTIONS MAY GRANT YOU CONSUMER RIGHTS WITH MINIMUM WARRANTY DURATION THAT DIFFER FROM THE DURATIONS PROVIDED HEREIN, AND INFOCUS WILL HONOR ALL SUCH CONSUMER RIGHTS UPON PROOF OF PURCHASE IN THAT JURISDICTION. To Obtain Warranty Service: During the Limited Warranty period, to exercise this Limited Warranty, the purchaser must first contact 1) InFocus (Mailing address: InFocus Corporation, 13190 SW 68th Parkway, Suite 200, Portland, OR 97223-8368 USA; or via the web at www.infocus.com/support), 2) a service facility authorized by InFocus or 3) the place of original purchase. For Warranty service, the purchaser will pay to return or deliver the defective Product and will pay all freight, duty, taxes, VAT, fees, incidental clearance and customs charges to ship the unit to an InFocus Service Center or to a service facility authorized by InFocus. When returning Product to InFocus, a Return Material Authorization Number (RMA #) is required and must be clearly displayed on the outside of the shipping carton or a similar package affording an equal degree of protection. InFocus or the service facility authorized by InFocus will return the repaired/replaced Product freight prepaid to the purchaser.

LIMITATION OF LIABILITY

IT IS UNDERSTOOD AND AGREED THAT INFOCUS' LIABILITY SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER. Where applicable national or state law prohibits the exclusion or limitation of liability, InFocus excludes or limits its liability to the maximum extent permitted by national law. Limitation on Bringing Action - No action, regardless of form, arising out of the agreement to purchase the Product may be brought by purchaser more than one year after the cause of action has accrued. Governing Law - Any action, regardless of form, arising out of the agreement to purchase the Product is governed by the laws of the state of Oregon, USA. Mandatory Arbitration - Any action, regardless of form, arising out of the agreement to purchase the Product is subject to mandatory arbitration. THIS WARRANTY DOES NOT AFFECT YOUR LEGAL RIGHTS UNDER APPLICABLE NATIONAL LAWS RELATING TO THE SALE OF CONSUMER PRODUCTS.